

GenCore version 5.1.6			
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OM nucleic - nucleic search, using sw model			
Run on: January 6, 2004, 22:38:11 ; Search time 328.88 Seconds			
(without alignments)			
9028.774 Million cell updates/sec			
Title: US-09-904-568-1			
Perfect score: 1100			
Sequence: 1 gcacgagccacagccagcta.....attaaaaaaaaaaaaaaaaa 1100			
Scoring table: IDENTITY_NUC			
Gapop 10.0 , Gapext 1.0			
Searched: 2552756 seqs, 1349719017 residues			
Total number of hits satisfying chosen parameters: 2356588			
Minimum DB seq length: 12			
Maximum DB seq length: 50			
Post-processing: Minimum Match 0%			
Maximum Match 100%			
Listing first 65000 summaries			
Database : N_Geneseq_19Jun03:*			
1: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*			
2: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*			
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21: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2000.DAT:*			
22: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2001A.DAT:*			
23: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2001B.DAT:*			
24: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2002.DAT:*			
25: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2003.DAT:*			
Pred. No. is the number of results predicted by chance to have a			
score greater than or equal to the score of the result being printed,			
and is derived by analysis of the total score distribution.			
SUMMARIES			

		%				
Result	Query					
No.	Score	Match	Length	DB	ID	S/L

c 59	21	1.9	21	16	AAQ75728	1
c 143	20	1.8	20	16	AAQ75581	1
c 391	19	1.7	19	16	AAQ75552	1
c 714	18	1.6	18	18	AAT94667	1
c 715	18	1.6	18	20	AAX18372	1
c1590	17	1.5	17	20	AAX18370	
c1591	17	1.5	17	21	AAA98232	1
c1592	17	1.5	17	21	AAA50197	1
c1593	17	1.5	17	21	AAA25450	1
3742	16	1.5	16	20	AAX07568	1
3743	16	1.5	16	21	AAC66068	1
c3744	16	1.5	16	22	AAH42481	1
c3745	16	1.5	16	22	AAF30880	1
c3746	16	1.5	16	22	AAF30895	1
c3747	16	1.5	16	23	ABA04585	1
c3748	16	1.5	16	24	ABA97402	1
c3749	16	1.5	16	25	AAL54078	1
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6611	15	1.4	15	15	AAQ79185	1
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c6613	15	1.4	15	16	AAT52138	1
c6614	15	1.4	15	18	AAV01603	1
6615	15	1.4	15	18	AAV01604	1
c6616	15	1.4	15	19	AAV07431	1
c6617	15	1.4	15	19	AAT86605	1
c6618	15	1.4	15	19	AAT86675	1
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6620	15	1.4	15	20	AAX00788	1
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c6622	15	1.4	15	21	AAA62347	1
c6623	15	1.4	15	21	AAA62348	1
c6624	15	1.4	15	21	AAA62350	1
c6625	15	1.4	15	21	AAA46502	1
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c6643	15	1.4	15	21	AAA07828	1
c6644	15	1.4	15	21	AAA07831	1
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c6660	15	1.4	15	24	ABK98141	1
c6661	15	1.4	15	24	ABK98184	1
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c6668	15	1.4	15	24	ABL57064	1
c6669	15	1.4	15	24	ABL57066	1
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13857	14	1.3	14	20	AAX14688	1
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c13863	14	1.3	14	24	ABQ83275	1
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c13865	14	1.3	14	24	ABL88471	1
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c13867	14	1.3	14	24	AAD24492	1
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c32231	13	1.2	13	14	AAQ54278	1
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c32233	13	1.2	13	19	AAV43768	1
c32234	13	1.2	13	20	AAX78231	1
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c32272	13	1.2	13	25	ABZ59804	1
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c 393	19	1.7	20	16	AAQ75582	0.95
c 394	19	1.7	20	16	AAQ75579	0.95
c5870	15.2	1.4	16	22	AAH27758	0.95
c5871	15.2	1.4	16	22	AAF82119	0.95
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c1623	17	1.5	18	24	ABL39401	0.944444
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26957	13.2	1.2	14	24	AAD44148	0.942857
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c3771	16	1.5	17	24	ABL59038	0.941176
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c3775	16	1.5	17	24	ABK13941	0.941176
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c13869	14	1.3	15	16	AAT52140	0.933333
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c13871	14	1.3	15	22	AAF53330	0.933333
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c32305	13	1.2	14	24	ABQ83277	0.928571
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c32311	13	1.2	14	24	AAD24493	0.928571
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c32313	13	1.2	14	24	AAS99698	0.928571
c32314	13	1.2	14	25	ABX79769	0.928571
c32315	13	1.2	14	25	ABZ23321	0.928571
c 226	19.4	1.8	21	16	AAQ75724	0.92381
c 227	19.4	1.8	21	16	AAQ75732	0.92381
c 228	19.4	1.8	21	16	AAQ75760	0.92381
c 229	19.4	1.8	21	16	AAQ75696	0.92381
c 230	19.4	1.8	21	16	AAQ75712	0.92381

c 231	19.4	1.8	21	16	AAQ75720	0.92381
c 232	19.4	1.8	21	16	AAQ75680	0.92381
c 233	19.4	1.8	21	16	AAQ75675	0.92381
c 234	19.4	1.8	21	16	AAQ75632	0.92381
c 532	18.4	1.7	20	16	AAQ75597	0.92
c 533	18.4	1.7	20	16	AAQ75584	0.92
c 534	18.4	1.7	20	16	AAQ75585	0.92
c 535	18.4	1.7	20	16	AAQ75589	0.92
c 536	18.4	1.7	20	16	AAQ75577	0.92
c 537	18.4	1.7	20	16	AAQ75565	0.92
c4612	15.6	1.4	17	21	AAZ89372	0.917647
c1147	17.4	1.6	19	16	AAQ75556	0.915789
c1148	17.4	1.6	19	16	AAQ75548	0.915789
c3151	16.4	1.5	18	13	AAQ30446	0.911111
c3152	16.4	1.5	18	22	AAF75598	0.911111
19431	13.6	1.2	15	24	ABL45877	0.906667
19432	13.6	1.2	15	24	AAD25198	0.906667
19433	13.6	1.2	15	24	ABK32799	0.906667
c5160	15.4	1.4	17	21	AAA25452	0.905882
c5161	15.4	1.4	17	21	AAA25453	0.905882
c5162	15.4	1.4	17	24	AAD44151	0.905882
c5163	15.4	1.4	17	24	ABA91530	0.905882
1302	17.2	1.6	19	18	AAT94431	0.905263
c1303	17.2	1.6	19	20	AAX18390	0.905263
c1304	17.2	1.6	19	20	AAX06572	0.905263
c1305	17.2	1.6	19	21	AAZ99489	0.905263
c1306	17.2	1.6	19	22	AAD15201	0.905263
c1307	17.2	1.6	19	22	AAS06525	0.905263
c1308	17.2	1.6	19	22	AAH21968	0.905263
c1309	17.2	1.6	19	22	AAF76617	0.905263
c1310	17.2	1.6	19	24	AAD40279	0.905263
c1311	17.2	1.6	19	24	ABQ73231	0.905263
c1312	17.2	1.6	19	24	ABK71509	0.905263
c1313	17.2	1.6	19	24	AAD34663	0.905263
c1314	17.2	1.6	19	25	ABZ68389	0.905263
c1315	17.2	1.6	19	25	AAD50267	0.905263
c1316	17.2	1.6	19	25	AAD49149	0.905263
c 395	19	1.7	21	16	AAQ75723	0.904762
c 396	19	1.7	21	16	AAQ75725	0.904762
c 397	19	1.7	21	16	AAQ75726	0.904762
c 398	19	1.7	21	16	AAQ75731	0.904762
c 399	19	1.7	21	16	AAQ75733	0.904762
c 400	19	1.7	21	16	AAQ75734	0.904762
c 401	19	1.7	21	16	AAQ75719	0.904762
c 402	19	1.7	21	16	AAQ75721	0.904762
c 403	19	1.7	21	16	AAQ75722	0.904762
c 719	18	1.6	20	14	AAQ49436	0.9
c 720	18	1.6	20	16	AAT04916	0.9
c 721	18	1.6	20	16	AAQ75583	0.9
c 722	18	1.6	20	16	AAQ75586	0.9
c 723	18	1.6	20	16	AAQ75587	0.9
c 724	18	1.6	20	16	AAQ75588	0.9
c 725	18	1.6	20	16	AAQ75590	0.9
c 726	18	1.6	20	16	AAQ75575	0.9
c 727	18	1.6	20	16	AAQ75576	0.9
c 728	18	1.6	20	16	AAQ75578	0.9
c 729	18	1.6	20	18	AAV07752	0.9
c 730	18	1.6	20	21	AAA13753	0.9
c 731	18	1.6	20	22	AAS10448	0.9
c 732	18	1.6	20	22	AAH41332	0.9

c 733	18	1.6	20	22	AAS04112	0.9
c 734	18	1.6	20	22	AAS04213	0.9
c 735	18	1.6	20	22	AAH23890	0.9
c 736	18	1.6	20	22	AAF89092	0.9
c 737	18	1.6	20	24	ABS73849	0.9
c 738	18	1.6	20	24	AAD35465	0.9
c10148	14.4	1.3	16	20	AAX18362	0.9
c10149	14.4	1.3	16	20	AAX18363	0.9
c10150	14.4	1.3	16	20	AAX18366	0.9
c10151	14.4	1.3	16	20	AAX18367	0.9
c10152	14.4	1.3	16	24	AAD44143	0.9
c46238	12.6	1.1	14	19	AAV10121	0.9
c46239	12.6	1.1	14	21	AAZ89371	0.9
c46240	12.6	1.1	14	24	ABK15060	0.9
c3416	16.2	1.5	18	20	AAX18389	0.9
c1624	17	1.5	19	16	AAQ75555	0.894737
c1625	17	1.5	19	16	AAQ75557	0.894737
c1626	17	1.5	19	16	AAQ75558	0.894737
c1627	17	1.5	19	16	AAQ75549	0.894737
c1628	17	1.5	19	16	AAQ75550	0.894737
c1629	17	1.5	19	16	AAQ75547	0.894737
c1630	17	1.5	19	17	AAT10757	0.894737
c1631	17	1.5	19	19	AAV07878	0.894737
c1632	17	1.5	19	19	AAV06820	0.894737
c1633	17	1.5	19	20	AAZ01358	0.894737
c1634	17	1.5	19	20	AAX81927	0.894737
c1635	17	1.5	19	20	AAX81316	0.894737
c1636	17	1.5	19	21	AAA88947	0.894737
c1637	17	1.5	19	21	AAA88948	0.894737
c1638	17	1.5	19	21	AAA88949	0.894737
c1639	17	1.5	19	21	AAA88950	0.894737
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c1642	17	1.5	19	21	AAA88965	0.894737
c1643	17	1.5	19	21	AAC62422	0.894737
c1644	17	1.5	19	21	AAC62454	0.894737
c1645	17	1.5	19	21	AAA71630	0.894737
c1646	17	1.5	19	21	AAA06839	0.894737
c1647	17	1.5	19	21	AAZ61390	0.894737
c1648	17	1.5	19	21	AAZ61404	0.894737
c1649	17	1.5	19	21	AAZ95240	0.894737
c1650	17	1.5	19	21	AAZ95241	0.894737
c1651	17	1.5	19	22	AAH46460	0.894737
c1652	17	1.5	19	22	AAH25737	0.894737
c1653	17	1.5	19	22	AAH25738	0.894737
c1654	17	1.5	19	22	AAF31458	0.894737
c1655	17	1.5	19	22	AAF31564	0.894737
c1656	17	1.5	19	22	AAC83664	0.894737
c1657	17	1.5	19	24	AAD41998	0.894737
c1658	17	1.5	19	24	AAD41999	0.894737
c1659	17	1.5	19	24	AAD42000	0.894737
c1660	17	1.5	19	24	AAD42001	0.894737
c1661	17	1.5	19	24	AAD42002	0.894737
c1662	17	1.5	19	24	AAD42003	0.894737
c1663	17	1.5	19	24	AAD42004	0.894737
c1664	17	1.5	19	24	AAD42005	0.894737
c1665	17	1.5	19	24	AAD42009	0.894737
c1666	17	1.5	19	24	AAD42010	0.894737
c1667	17	1.5	19	24	AAD42011	0.894737
c1668	17	1.5	19	24	AAD42020	0.894737

c1669	17	1.5	19	24	ABK94423	0.894737
c1670	17	1.5	19	24	ABL51520	0.894737
1671	17	1.5	19	24	ABL51521	0.894737
c1672	17	1.5	19	24	ABA91949	0.894737
c1673	17	1.5	19	24	ABA91950	0.894737
c1674	17	1.5	19	24	ABA91951	0.894737
c1675	17	1.5	19	24	AAK98526	0.894737
c1676	17	1.5	19	25	ABZ75398	0.894737
c1677	17	1.5	19	25	ABZ75399	0.894737
c1678	17	1.5	19	25	ABZ58336	0.894737
c5872	15.2	1.4	17	20	AAX18388	0.894118
c5873	15.2	1.4	17	22	AAS14174	0.894118
c22851	13.4	1.2	15	16	AAT52142	0.893333
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22853	13.4	1.2	15	19	AAT86603	0.893333
c22854	13.4	1.2	15	21	AAA11718	0.893333
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c22856	13.4	1.2	15	22	AAF80919	0.893333
22857	13.4	1.2	15	22	AAF46503	0.893333
c22858	13.4	1.2	15	22	AAF49042	0.893333
c22859	13.4	1.2	15	24	ABX01462	0.893333
c22860	13.4	1.2	15	24	ABK98166	0.893333
c22861	13.4	1.2	15	24	ABK98185	0.893333
c22862	13.4	1.2	15	24	ABA97405	0.893333
c22863	13.4	1.2	15	25	ABX79839	0.893333
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c3778	16	1.5	18	19	AAV54167	0.888889
c3779	16	1.5	18	19	AAV54170	0.888889
c3780	16	1.5	18	19	AAV54173	0.888889
c3781	16	1.5	18	21	AAZ90640	0.888889
c3782	16	1.5	18	21	AAZ90643	0.888889
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c3784	16	1.5	18	22	AAF75596	0.888889
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c3786	16	1.5	18	24	ABK51158	0.888889
c3787	16	1.5	18	24	ABK13935	0.888889
c3788	16	1.5	18	25	AAD52799	0.888889
c11775	14.2	1.3	16	20	AAX18387	0.8875
c55297	12.4	1.1	14	15	AAQ45287	0.885714
c55298	12.4	1.1	14	17	AAT18608	0.885714
c55299	12.4	1.1	14	18	AAT91861	0.885714
c55300	12.4	1.1	14	19	AAV09226	0.885714
c55301	12.4	1.1	14	19	AAV09227	0.885714
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c55307	12.4	1.1	14	19	AAV12219	0.885714
c55308	12.4	1.1	14	19	AAT99552	0.885714
c55309	12.4	1.1	14	20	AAX34947	0.885714
c55310	12.4	1.1	14	20	AAX19475	0.885714
c55311	12.4	1.1	14	20	AAX19476	0.885714
c55312	12.4	1.1	14	20	AAX19466	0.885714
c55313	12.4	1.1	14	20	AAX19467	0.885714
c55314	12.4	1.1	14	20	AAX02696	0.885714
c55315	12.4	1.1	14	20	AAX02698	0.885714
c55316	12.4	1.1	14	21	AAC88538	0.885714
55317	12.4	1.1	14	22	AAC83822	0.885714
55318	12.4	1.1	14	24	ABQ83273	0.885714

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c55320	12.4	1.1	14	24	AAD44153	0.885714
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c55323	12.4	1.1	14	24	AAD24489	0.885714
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55326	12.4	1.1	14	25	ABX79985	0.885714
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c6682	15	1.4	17	18	AAX69802	0.882353
c6683	15	1.4	17	19	AAV37934	0.882353
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c6685	15	1.4	17	21	AAC64162	0.882353
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c6699	15	1.4	17	21	AAA30180	0.882353
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c6702	15	1.4	17	21	AAZ36740	0.882353
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c6712	15	1.4	17	24	AAL49949	0.882353
c6713	15	1.4	17	24	AAL49950	0.882353
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c6716	15	1.4	17	24	ABL59039	0.882353
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c6718	15	1.4	17	24	ABN99830	0.882353
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c 538	18.4	1.7	21	16	AAQ75757	0.87619
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c 554	18.4	1.7	21	16	AAQ75629	0.87619
c 555	18.4	1.7	21	16	AAQ75631	0.87619
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c13880	14	1.3	16	20	AAX18360	0.875
c13881	14	1.3	16	24	AAD44145	0.875
c13882	14	1.3	16	24	AAD44147	0.875
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c1149	17.4	1.6	20	16	AAQ75596	0.87
c1150	17.4	1.6	20	16	AAQ75598	0.87
c1151	17.4	1.6	20	16	AAQ75595	0.87
c1152	17.4	1.6	20	16	AAQ75566	0.87
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c32319	13	1.2	15	21	AAZ62807	0.866667
c32320	13	1.2	15	21	AAZ64410	0.866667
c32321	13	1.2	15	22	AAF69537	0.866667
c32322	13	1.2	15	22	AAF53329	0.866667
c32323	13	1.2	15	22	AAF53334	0.866667
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c32329	13	1.2	15	24	ABK09399	0.866667
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c1317	17.2	1.6	20	20	AAZ09197	0.86
c 739	18	1.6	21	16	AAQ75691	0.857143
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c 741	18	1.6	21	16	AAQ75693	0.857143
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c 745	18	1.6	21	16	AAQ75701	0.857143
c 746	18	1.6	21	16	AAQ75702	0.857143
c 747	18	1.6	21	16	AAQ75703	0.857143
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c 750	18	1.6	21	16	AAQ75706	0.857143
c 751	18	1.6	21	16	AAQ75707	0.857143
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c 767	18	1.6	21	16	AAQ75671	0.857143
c 768	18	1.6	21	16	AAQ75672	0.857143
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c5164	15.4	1.4	18	13	AAQ20108	0.855556
c5165	15.4	1.4	18	13	AAQ20109	0.855556
5166	15.4	1.4	18	13	AAQ25501	0.855556
c5167	15.4	1.4	18	13	AAQ30447	0.855556
c5168	15.4	1.4	18	13	AAQ30448	0.855556
c5169	15.4	1.4	18	19	AAV54165	0.855556
c5170	15.4	1.4	18	19	AAV54166	0.855556
c5171	15.4	1.4	18	19	AAV54168	0.855556
c5172	15.4	1.4	18	19	AAV54169	0.855556
c5173	15.4	1.4	18	21	AAZ90644	0.855556
c5174	15.4	1.4	18	21	AAZ90645	0.855556
c5175	15.4	1.4	18	21	AAZ90647	0.855556
c5176	15.4	1.4	18	21	AAZ90648	0.855556
c1679	17	1.5	20	13	AAQ25565	0.85
c1680	17	1.5	20	13	AAQ33554	0.85
1681	17	1.5	20	15	AAQ58578	0.85
c1682	17	1.5	20	16	AAT04917	0.85
c1683	17	1.5	20	16	AAT04918	0.85
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c1685	17	1.5	20	16	AAQ94205	0.85
c1686	17	1.5	20	16	AAQ75599	0.85
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c1702	17	1.5	20	16	AAQ75571	0.85
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1738	17	1.5	20	22	AAF99431	0.85
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c1752	17	1.5	20	24	ABS78072	0.85
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1763	17	1.5	20	24	ABL36232	0.85
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c1765	17	1.5	20	24	ABL39402	0.85
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1767	17	1.5	20	25	ABX92177	0.85
1768	17	1.5	20	25	ABX79181	0.85
c1769	17	1.5	20	25	ABZ22916	0.85
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c 877	17.8	1.6	21	16	AAQ75792	0.847619
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c 887	17.8	1.6	21	16	AAQ75664	0.847619
c 888	17.8	1.6	21	16	AAQ75648	0.847619
c 889	17.8	1.6	21	22	AAF32494	0.847619
10153	14.4	1.3	17	18	AAT62817	0.847059
10154	14.4	1.3	17	18	AAT76486	0.847059
10155	14.4	1.3	17	20	AAX55858	0.847059
10156	14.4	1.3	17	20	AAX54277	0.847059
10157	14.4	1.3	17	21	AAF19843	0.847059
10158	14.4	1.3	17	21	AAA33721	0.847059
c10159	14.4	1.3	17	21	AAA25454	0.847059
10160	14.4	1.3	17	22	ABA77189	0.847059
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10162	14.4	1.3	17	22	ABA77193	0.847059
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10164	14.4	1.3	17	22	ABA77197	0.847059
c10165	14.4	1.3	17	22	ABA77198	0.847059
2772	16.8	1.5	20	20	AAZ37719	0.84
2773	16.8	1.5	20	22	AAS29488	0.84
c2774	16.8	1.5	20	22	AAF83959	0.84
2775	16.8	1.5	20	22	AAF80873	0.84
2776	16.8	1.5	20	24	AAS97833	0.84
c2777	16.8	1.5	20	24	AAS97860	0.84
46241	12.6	1.1	15	22	ABA81571	0.84
46242	12.6	1.1	15	24	AAS94583	0.84
c22864	13.4	1.2	16	13	AAQ21896	0.8375
c22865	13.4	1.2	16	17	AAT44591	0.8375
22866	13.4	1.2	16	24	ABL57076	0.8375
558	18.4	1.7	22	24	ABA93238	0.836364
c6725	15	1.4	18	19	AAV54171	0.833333
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6730	15	1.4	18	21	AAA58385	0.833333
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c6732	15	1.4	18	21	AAZ90641	0.833333
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c6734	15	1.4	18	21	AAZ90650	0.833333
c6735	15	1.4	18	21	AAZ90651	0.833333
c6736	15	1.4	18	24	ABT11136	0.833333
4158	15.8	1.4	19	17	AAT29081	0.831579
c4159	15.8	1.4	19	18	AAV01125	0.831579
c4160	15.8	1.4	19	25	ABT13587	0.831579
c1156	17.4	1.6	21	16	AAQ75751	0.828571
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c1167	17.4	1.6	21	16	AAQ75637	0.828571
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c1173	17.4	1.6	21	16	AAQ75644	0.828571
1174	17.4	1.6	21	19	AAZ26584	0.828571
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c55329	12.4	1.1	15	16	AAT52144	0.826667
c55330	12.4	1.1	15	17	AAX79429	0.826667
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55333	12.4	1.1	15	19	AAV48765	0.826667
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55336	12.4	1.1	15	19	AAT86601	0.826667
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c55343	12.4	1.1	15	22	AAF92685	0.826667
55344	12.4	1.1	15	22	AAF95031	0.826667
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c55346	12.4	1.1	15	22	AAF81000	0.826667
55347	12.4	1.1	15	22	AAF46502	0.826667
55348	12.4	1.1	15	22	AAF46504	0.826667
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55350	12.4	1.1	15	22	AAF51980	0.826667
55351	12.4	1.1	15	22	AAF51981	0.826667
c55352	12.4	1.1	15	22	AAF53299	0.826667
c55353	12.4	1.1	15	22	AAF53300	0.826667
c55354	12.4	1.1	15	24	ABX01316	0.826667
c55355	12.4	1.1	15	24	ABX01461	0.826667
55356	12.4	1.1	15	24	ABK41344	0.826667
55357	12.4	1.1	15	24	ABK31940	0.826667
55358	12.4	1.1	15	24	ABK32012	0.826667
c55359	12.4	1.1	15	24	ABK32522	0.826667
c55360	12.4	1.1	15	25	ABZ76549	0.826667
c13884	14	1.3	17	18	AAX69798	0.823529
c13885	14	1.3	17	18	AAX69803	0.823529
c13886	14	1.3	17	21	AAA25447	0.823529
7803	14.8	1.3	18	21	AAZ73046	0.822222
c3153	16.4	1.5	20	22	AAS05715	0.82
3154	16.4	1.5	20	22	AAF99943	0.82
c3155	16.4	1.5	20	24	ABA05916	0.82
c32332	13	1.2	16	25	AAL54153	0.8125
16356	13.8	1.3	17	12	AAQ13914	0.811765
16357	13.8	1.3	17	13	AAQ20635	0.811765
16358	13.8	1.3	17	13	AAQ20637	0.811765
c16359	13.8	1.3	17	18	AAX75068	0.811765
c16360	13.8	1.3	17	18	AAX75069	0.811765

c16361	13.8	1.3	17	18	AAX69804	0.811765
16362	13.8	1.3	17	18	AAX62272	0.811765
16363	13.8	1.3	17	20	AAA22975	0.811765
c16364	13.8	1.3	17	21	AAF03226	0.811765
c16365	13.8	1.3	17	21	AAF06239	0.811765
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16371	13.8	1.3	17	21	AAA25555	0.811765
16372	13.8	1.3	17	22	ABA78137	0.811765
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16376	13.8	1.3	17	22	AAH80147	0.811765
16377	13.8	1.3	17	23	ABK02484	0.811765
16378	13.8	1.3	17	24	ABS74958	0.811765
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c16380	13.8	1.3	17	24	ABN08387	0.811765
c16381	13.8	1.3	17	24	ABN08389	0.811765
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c16384	13.8	1.3	17	24	ABN08662	0.811765
16385	13.8	1.3	17	25	ABT34448	0.811765
16386	13.8	1.3	17	25	ABT39664	0.811765
c16387	13.8	1.3	17	25	ABZ65528	0.811765
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c1833	17	1.5	21	16	AAQ75615	0.809524
c1834	17	1.5	21	16	AAQ75617	0.809524
c1835	17	1.5	21	16	AAQ75618	0.809524
c1836	17	1.5	21	16	AAQ75619	0.809524
c1837	17	1.5	21	16	AAQ75620	0.809524
c1838	17	1.5	21	16	AAQ75621	0.809524
c1839	17	1.5	21	16	AAQ75622	0.809524
c1840	17	1.5	21	16	AAQ75660	0.809524
c1841	17	1.5	21	16	AAQ75661	0.809524
c1842	17	1.5	21	16	AAQ75662	0.809524
c1843	17	1.5	21	16	AAQ75663	0.809524
c1844	17	1.5	21	16	AAQ75645	0.809524
c1845	17	1.5	21	16	AAQ75646	0.809524
c1846	17	1.5	21	16	AAQ75647	0.809524
c1847	17	1.5	21	16	AAQ75649	0.809524
c1848	17	1.5	21	16	AAQ75650	0.809524
c1849	17	1.5	21	16	AAQ75651	0.809524
c1850	17	1.5	21	16	AAQ75652	0.809524
c1851	17	1.5	21	16	AAQ75653	0.809524
c1852	17	1.5	21	16	AAQ75654	0.809524
c1853	17	1.5	21	16	AAQ75655	0.809524
c1854	17	1.5	21	16	AAQ75656	0.809524
c1855	17	1.5	21	16	AAQ75657	0.809524
c1856	17	1.5	21	16	AAQ75658	0.809524
c1857	17	1.5	21	16	AAQ75659	0.809524
1858	17	1.5	21	17	AAT10743	0.809524
c1859	17	1.5	21	19	AAZ26268	0.809524
1860	17	1.5	21	19	AAV35395	0.809524
1861	17	1.5	21	20	AAX81302	0.809524
c1862	17	1.5	21	20	AAX26973	0.809524

c1863	17	1.5	21	21	AAZ44350	0.809524
c1864	17	1.5	21	22	AAH42480	0.809524
c1865	17	1.5	21	22	AAF99707	0.809524
c1866	17	1.5	21	24	ABS78428	0.809524
c1867	17	1.5	21	24	ABL39404	0.809524
c1868	17	1.5	21	25	AAD51323	0.809524
235	19.4	1.8	24	24	ABK12409	0.808333
c 236	19.4	1.8	24	24	AAI66361	0.808333
119	20.2	1.8	25	22	AAH38447	0.808
2778	16.8	1.5	21	19	AAZ26500	0.8
c2779	16.8	1.5	21	23	AAH88803	0.8
3789	16	1.5	20	22	AAS05714	0.8
c3790	16	1.5	20	22	AAC82923	0.8
3791	16	1.5	20	24	AAD33499	0.8
c3792	16	1.5	20	24	ABA05917	0.8
c10166	14.4	1.3	18	17	AAX34987	0.8
10167	14.4	1.3	18	17	AAX34992	0.8
c38620	12.8	1.2	16	13	AAQ20008	0.8
38621	12.8	1.2	16	18	AAT76488	0.8
38622	12.8	1.2	16	20	AAX54279	0.8
38623	12.8	1.2	16	21	AAF19845	0.8
38624	12.8	1.2	16	21	AAA33723	0.8
c38625	12.8	1.2	16	24	ABL57868	0.8
c 404	19	1.7	24	24	ABK86168	0.791667
405	19	1.7	24	24	ABK86169	0.791667
c4161	15.8	1.4	20	17	AAT32535	0.79
c4162	15.8	1.4	20	21	AAZ44829	0.79
c4163	15.8	1.4	20	22	AAS05713	0.79
22867	13.4	1.2	17	20	AAX55857	0.788235
c22868	13.4	1.2	17	21	AAF03224	0.788235
c22869	13.4	1.2	17	21	AAF03225	0.788235
c22870	13.4	1.2	17	21	AAC73225	0.788235
22871	13.4	1.2	17	21	AAA36293	0.788235
c22872	13.4	1.2	17	22	ABA80864	0.788235
22873	13.4	1.2	17	22	ABA80865	0.788235
c22874	13.4	1.2	17	22	ABA80868	0.788235
22875	13.4	1.2	17	22	ABA80869	0.788235
c22876	13.4	1.2	17	22	ABA80872	0.788235
22877	13.4	1.2	17	22	ABA80873	0.788235
22878	13.4	1.2	17	22	AAH80145	0.788235
22879	13.4	1.2	17	22	AAH80146	0.788235
c22880	13.4	1.2	17	23	ABK01296	0.788235
c22881	13.4	1.2	17	23	ABK01700	0.788235
22882	13.4	1.2	17	24	ABN07676	0.788235
22883	13.4	1.2	17	24	ABN07677	0.788235
22884	13.4	1.2	17	24	ABN07678	0.788235
c22885	13.4	1.2	17	24	ABN08388	0.788235
c22886	13.4	1.2	17	24	ABN08660	0.788235
c22887	13.4	1.2	17	24	ABN08661	0.788235
c22888	13.4	1.2	17	24	ABK18426	0.788235
22889	13.4	1.2	17	24	ABK19426	0.788235
c22890	13.4	1.2	17	24	ABK19435	0.788235
c22891	13.4	1.2	17	24	ABK19436	0.788235
c22892	13.4	1.2	17	24	ABK26751	0.788235
22893	13.4	1.2	17	24	ABK26752	0.788235
c22894	13.4	1.2	17	25	ABT34751	0.788235
c22895	13.4	1.2	17	25	ABT38926	0.788235
c22896	13.4	1.2	17	25	ABZ65372	0.788235
c 444	18.8	1.7	24	24	AAL47515	0.783333
c 771	18	1.6	23	13	AAQ30430	0.782609

c 772	18	1.6	23	13	AAQ30431	0.782609
773	18	1.6	23	24	ABL01773	0.782609
1318	17.2	1.6	22	21	AAC69376	0.781818
c1319	17.2	1.6	22	24	AAL50570	0.781818
c1320	17.2	1.6	22	25	AAD51324	0.781818
c1321	17.2	1.6	22	25	ABX74887	0.781818
c7804	14.8	1.3	19	13	AAQ20030	0.778947
c7805	14.8	1.3	19	13	AAQ30373	0.778947
c7806	14.8	1.3	19	13	AAQ30376	0.778947
c7807	14.8	1.3	19	24	ABK93683	0.778947
c7808	14.8	1.3	19	24	ABL58468	0.778947
c7809	14.8	1.3	19	25	ABZ84260	0.778947
13887	14	1.3	18	22	AAH74930	0.777778
13888	14	1.3	18	24	ABL88799	0.777778
13889	14	1.3	18	24	ABL88821	0.777778
13890	14	1.3	18	24	ABA82759	0.777778
55361	12.4	1.1	16	18	AAV14166	0.775
55362	12.4	1.1	16	18	AAT48906	0.775
c55363	12.4	1.1	16	20	AAX57828	0.775
c55364	12.4	1.1	16	20	AAX36683	0.775
c55365	12.4	1.1	16	20	AAX23000	0.775
55366	12.4	1.1	16	21	AAA46246	0.775
c55367	12.4	1.1	16	21	AAZ36573	0.775
55368	12.4	1.1	16	22	AAH91937	0.775
c55369	12.4	1.1	16	24	ABT11146	0.775
c55370	12.4	1.1	16	24	ABK41462	0.775
c55371	12.4	1.1	16	25	ACA58253	0.775
c1869	17	1.5	22	15	AAQ64706	0.772727
1870	17	1.5	22	15	AAQ64724	0.772727
c1871	17	1.5	22	21	AAA98276	0.772727
1872	17	1.5	22	22	AAF17413	0.772727
3417	16.2	1.5	21	19	AAZ26563	0.771429
5178	15.4	1.4	20	19	AAV12302	0.77
c5179	15.4	1.4	20	22	AAC82912	0.77
5180	15.4	1.4	20	24	AAD33168	0.77
c 318	19.2	1.7	25	24	ABK86170	0.768
c16388	13.8	1.3	18	18	AAT60989	0.766667
16389	13.8	1.3	18	19	AAV29451	0.766667
c16390	13.8	1.3	18	20	AAZ41089	0.766667
c16391	13.8	1.3	18	20	AAZ06604	0.766667
16392	13.8	1.3	18	21	AAZ57824	0.766667
16393	13.8	1.3	18	22	AAH27102	0.766667
16394	13.8	1.3	18	22	AAF17432	0.766667
16395	13.8	1.3	18	23	ABZ72124	0.766667
16396	13.8	1.3	18	24	ABQ78689	0.766667
16397	13.8	1.3	18	24	ABK87302	0.766667
16398	13.8	1.3	18	24	ABL54126	0.766667
c16399	13.8	1.3	18	24	ABA91529	0.766667
16400	13.8	1.3	18	25	ABZ76952	0.766667
16401	13.8	1.3	18	25	ABZ77008	0.766667
16402	13.8	1.3	18	25	ABX74977	0.766667
c 559	18.4	1.7	24	24	ABV77669	0.766667
32333	13	1.2	17	18	AAX73312	0.764706
c32334	13	1.2	17	18	AAX69797	0.764706
c32335	13	1.2	17	18	AAX69427	0.764706
c32336	13	1.2	17	18	AAX69428	0.764706
c32337	13	1.2	17	18	AAX69429	0.764706
c32338	13	1.2	17	18	AAX69430	0.764706
32339	13	1.2	17	20	AAA23035	0.764706
32340	13	1.2	17	20	AAA23036	0.764706

c32341	13	1.2	17	21	AAF07197	0.764706
c32342	13	1.2	17	24	ABS53337	0.764706
32343	13	1.2	17	24	ABN01766	0.764706
32344	13	1.2	17	24	ABN01767	0.764706
32345	13	1.2	17	24	ABN01768	0.764706
32346	13	1.2	17	24	ABN01769	0.764706
32347	13	1.2	17	24	ABN01770	0.764706
c32348	13	1.2	17	25	ABT35698	0.764706
32349	13	1.2	17	25	ABT36389	0.764706
c3793	16	1.5	21	20	AAZ09196	0.761905
3794	16	1.5	21	24	AAD33500	0.761905
5874	15.2	1.4	20	20	AAZ09195	0.76
c5875	15.2	1.4	20	21	AAC58043	0.76
5876	15.2	1.4	20	22	ABA82154	0.76
c5877	15.2	1.4	20	22	AAF54523	0.76
c5878	15.2	1.4	20	22	AAC82913	0.76
c5879	15.2	1.4	20	22	AAC82918	0.76
c5880	15.2	1.4	20	24	ABN80967	0.76
c5881	15.2	1.4	20	24	ABK44387	0.76
5882	15.2	1.4	20	24	ABK22951	0.76
c5883	15.2	1.4	20	24	ABA05915	0.76
5884	15.2	1.4	20	24	ABI97523	0.76
c5885	15.2	1.4	20	24	ABL45369	0.76
5886	15.2	1.4	20	25	ACC45534	0.76
5887	15.2	1.4	20	25	AAL53968	0.76
c 655	18.2	1.7	24	22	AAH76998	0.758333
10168	14.4	1.3	19	21	AAA58577	0.757895
38626	12.8	1.2	17	12	AAQ13796	0.752941
c38627	12.8	1.2	17	13	AAQ20006	0.752941
c38628	12.8	1.2	17	13	AAQ20005	0.752941
38629	12.8	1.2	17	13	AAQ26203	0.752941
c38630	12.8	1.2	17	18	AAX75070	0.752941
c38631	12.8	1.2	17	18	AAX71001	0.752941
38632	12.8	1.2	17	18	AAX70072	0.752941
c38633	12.8	1.2	17	18	AAX69805	0.752941
c38634	12.8	1.2	17	18	AAX69438	0.752941
c38635	12.8	1.2	17	18	AAX69439	0.752941
38636	12.8	1.2	17	18	AAX62988	0.752941
38637	12.8	1.2	17	18	AAX62274	0.752941
38638	12.8	1.2	17	18	AAT93742	0.752941
c38639	12.8	1.2	17	19	AAV97477	0.752941
38640	12.8	1.2	17	19	AAV96673	0.752941
38641	12.8	1.2	17	20	AAA19046	0.752941
c38642	12.8	1.2	17	20	AAA21123	0.752941
c38643	12.8	1.2	17	20	AAA22609	0.752941
c38644	12.8	1.2	17	20	AAA22830	0.752941
38645	12.8	1.2	17	20	AAA22974	0.752941
38646	12.8	1.2	17	20	AAV92555	0.752941
38647	12.8	1.2	17	21	AAF01850	0.752941
c38648	12.8	1.2	17	21	AAF02013	0.752941
38649	12.8	1.2	17	21	AAF02208	0.752941
38650	12.8	1.2	17	21	AAF02388	0.752941
c38651	12.8	1.2	17	21	AAF03227	0.752941
c38652	12.8	1.2	17	21	AAF06314	0.752941
38653	12.8	1.2	17	21	AAA36578	0.752941
c38654	12.8	1.2	17	21	AAA25179	0.752941
c38655	12.8	1.2	17	21	AAA25181	0.752941
c38656	12.8	1.2	17	21	AAA25444	0.752941
c38657	12.8	1.2	17	21	AAA25456	0.752941
c38658	12.8	1.2	17	22	ABA77753	0.752941

38659	12.8	1.2	17	22	ABA77754	0.752941
c38660	12.8	1.2	17	22	AAH76222	0.752941
c38661	12.8	1.2	17	22	AAH95015	0.752941
38662	12.8	1.2	17	22	AAH95046	0.752941
c38663	12.8	1.2	17	22	AAH95844	0.752941
38664	12.8	1.2	17	22	AAH80148	0.752941
c38665	12.8	1.2	17	22	AAD03856	0.752941
c38666	12.8	1.2	17	23	ABK01170	0.752941
c38667	12.8	1.2	17	23	ABK01424	0.752941
38668	12.8	1.2	17	23	ABK01891	0.752941
c38669	12.8	1.2	17	23	ABK01940	0.752941
38670	12.8	1.2	17	23	ABK02483	0.752941
38671	12.8	1.2	17	23	ABK03593	0.752941
38672	12.8	1.2	17	24	ABS74957	0.752941
38673	12.8	1.2	17	24	ABS74959	0.752941
c38674	12.8	1.2	17	24	ABV90957	0.752941
c38675	12.8	1.2	17	24	ABV90958	0.752941
c38676	12.8	1.2	17	24	ABQ63463	0.752941
c38677	12.8	1.2	17	24	ABQ63464	0.752941
c38678	12.8	1.2	17	24	ABQ63675	0.752941
c38679	12.8	1.2	17	24	ABQ63676	0.752941
c38680	12.8	1.2	17	24	ABQ64196	0.752941
c38681	12.8	1.2	17	24	ABQ64197	0.752941
c38682	12.8	1.2	17	24	ABK56723	0.752941
c38683	12.8	1.2	17	24	ABK56724	0.752941
c38684	12.8	1.2	17	24	ABK57217	0.752941
c38685	12.8	1.2	17	24	ABK57443	0.752941
c38686	12.8	1.2	17	24	ABK57770	0.752941
c38687	12.8	1.2	17	24	ABL92181	0.752941
c38688	12.8	1.2	17	24	ABN01795	0.752941
c38689	12.8	1.2	17	24	ABN01796	0.752941
38690	12.8	1.2	17	24	ABN06603	0.752941
38691	12.8	1.2	17	24	ABN06604	0.752941
38692	12.8	1.2	17	24	ABN07594	0.752941
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c38694	12.8	1.2	17	24	ABN08386	0.752941
c38695	12.8	1.2	17	24	ABN08392	0.752941
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c38697	12.8	1.2	17	24	ABK18569	0.752941
c38698	12.8	1.2	17	24	ABK18966	0.752941
38699	12.8	1.2	17	24	ABK19138	0.752941
38700	12.8	1.2	17	24	ABK26395	0.752941
c38701	12.8	1.2	17	24	ABK26396	0.752941
c38702	12.8	1.2	17	24	ABK26635	0.752941
38703	12.8	1.2	17	24	ABK26636	0.752941
c38704	12.8	1.2	17	24	AAS18428	0.752941
38705	12.8	1.2	17	25	ABT34698	0.752941
38706	12.8	1.2	17	25	ABT35200	0.752941
38707	12.8	1.2	17	25	ABT35608	0.752941
38708	12.8	1.2	17	25	ABT37161	0.752941
c38709	12.8	1.2	17	25	ABT37451	0.752941
c38710	12.8	1.2	17	25	ABT38498	0.752941
38711	12.8	1.2	17	25	ABT38748	0.752941
c38712	12.8	1.2	17	25	ABT39374	0.752941
38713	12.8	1.2	17	25	ACA06327	0.752941
c38714	12.8	1.2	17	25	ACA06426	0.752941
c38715	12.8	1.2	17	25	ACA06768	0.752941
38716	12.8	1.2	17	25	ACA07669	0.752941
c38717	12.8	1.2	17	25	ABX16358	0.752941
c38718	12.8	1.2	17	25	ABX72106	0.752941

38719	12.8	1.2	17	25	ABZ61500	0.752941
c38720	12.8	1.2	17	25	ABZ64967	0.752941
38721	12.8	1.2	17	25	ABZ65388	0.752941
c38722	12.8	1.2	17	25	ABZ65433	0.752941
c38723	12.8	1.2	17	25	ABZ65434	0.752941
c38724	12.8	1.2	17	25	ABZ65527	0.752941
c4164	15.8	1.4	21	18	AAT48469	0.752381
4165	15.8	1.4	21	19	AAZ26632	0.752381
c4166	15.8	1.4	21	20	AAX14729	0.752381
c6737	15	1.4	20	18	AAT73293	0.75
c6738	15	1.4	20	20	AAX32003	0.75
c6739	15	1.4	20	20	AAX32010	0.75
c6740	15	1.4	20	22	AAC82908	0.75
c6741	15	1.4	20	22	AAC82909	0.75
c6742	15	1.4	20	22	AAC82910	0.75
c6743	15	1.4	20	22	AAC82911	0.75
c6744	15	1.4	20	22	AAC82914	0.75
c6745	15	1.4	20	22	AAC82917	0.75
c6746	15	1.4	20	22	AAC82919	0.75
c6747	15	1.4	20	22	AAC82920	0.75
c6748	15	1.4	20	22	AAC82921	0.75
c6749	15	1.4	20	22	AAC82922	0.75
c6750	15	1.4	20	22	AAF87713	0.75
c6751	15	1.4	20	24	AAD35095	0.75
6752	15	1.4	20	24	ABL57070	0.75
6753	15	1.4	20	24	ABL58300	0.75
c6754	15	1.4	20	24	ABI96929	0.75
c1322	17.2	1.6	23	24	ABK13916	0.747826
11776	14.2	1.3	19	10	AAN90485	0.747368
c11777	14.2	1.3	19	21	AAZ75077	0.747368
11778	14.2	1.3	19	22	AAF23056	0.747368
11779	14.2	1.3	19	22	AAF23065	0.747368
11780	14.2	1.3	19	22	AAF23108	0.747368
11781	14.2	1.3	19	22	AAF26629	0.747368
11782	14.2	1.3	19	24	ABA97625	0.747368
c11783	14.2	1.3	19	25	AAD52991	0.747368
c22897	13.4	1.2	18	14	AAQ38707	0.744444
c22898	13.4	1.2	18	18	AAT96107	0.744444
c22899	13.4	1.2	18	18	AAT48840	0.744444
22900	13.4	1.2	18	20	AAZ41080	0.744444
22901	13.4	1.2	18	20	AAZ06596	0.744444
c22902	13.4	1.2	18	20	AAZ11011	0.744444
c22903	13.4	1.2	18	21	AAA64844	0.744444
c22904	13.4	1.2	18	21	AAZ88678	0.744444
c22905	13.4	1.2	18	21	AAZ89746	0.744444
22906	13.4	1.2	18	24	ABS98373	0.744444
22907	13.4	1.2	18	24	ABL88833	0.744444
c 471	18.6	1.7	25	20	AAX84258	0.744
c 472	18.6	1.7	25	21	AAC96240	0.744
c 890	17.8	1.6	24	20	AAZ00877	0.741667
c 891	17.8	1.6	24	22	AAH75510	0.741667
892	17.8	1.6	24	24	ABS54833	0.741667
7810	14.8	1.3	20	15	AAQ53923	0.74
c7811	14.8	1.3	20	20	AAZ05409	0.74
7812	14.8	1.3	20	20	AAX34805	0.74
c7813	14.8	1.3	20	21	AAA55978	0.74
c7814	14.8	1.3	20	21	AAA15595	0.74
c7815	14.8	1.3	20	21	AAA15597	0.74
c7816	14.8	1.3	20	22	AAF74118	0.74
c7817	14.8	1.3	20	22	AAF55880	0.74

7818	14.8	1.3	20	22	AAC92901	0.74
7819	14.8	1.3	20	24	AAL40285	0.74
7820	14.8	1.3	20	24	ABA91744	0.74
7821	14.8	1.3	20	25	ABX50049	0.74
c1873	17	1.5	23	13	AAQ30432	0.73913
c1874	17	1.5	23	15	AAQ45360	0.73913
1875	17	1.5	23	16	AAQ75028	0.73913
c1876	17	1.5	23	16	AAQ75029	0.73913
c1877	17	1.5	23	17	AAT33701	0.73913
c1878	17	1.5	23	17	AAT37316	0.73913
c1879	17	1.5	23	19	AAV61555	0.73913
c1880	17	1.5	23	19	AAV61556	0.73913
c1881	17	1.5	23	19	AAV61554	0.73913
c1882	17	1.5	23	21	AAC62450	0.73913
c1883	17	1.5	23	21	AAC62451	0.73913
c1884	17	1.5	23	21	AAA08407	0.73913
c1885	17	1.5	23	22	AAF85497	0.73913
c1886	17	1.5	23	22	AAF16627	0.73913
1887	17	1.5	23	24	AAD33503	0.73913
c1888	17	1.5	23	24	ABL95973	0.73913
c1889	17	1.5	23	24	ABA99682	0.73913
c1890	17	1.5	23	24	ABA97431	0.73913
c13891	14	1.3	19	25	ABT33769	0.736842
3418	16.2	1.5	22	22	AAF93028	0.736364
560	18.4	1.7	25	22	AAH39959	0.736
981	17.6	1.6	24	18	AAT99286	0.733333
982	17.6	1.6	24	19	AAV31743	0.733333
983	17.6	1.6	24	20	AAX04086	0.733333
c 984	17.6	1.6	24	21	AAA40353	0.733333
c 985	17.6	1.6	24	21	AAA40359	0.733333
c 986	17.6	1.6	24	22	AAF99304	0.733333
c 987	17.6	1.6	24	22	AAF99756	0.733333
988	17.6	1.6	24	22	AAF99757	0.733333
c 989	17.6	1.6	24	23	ABV14842	0.733333
c 990	17.6	1.6	24	24	ABS77949	0.733333
c 991	17.6	1.6	24	24	ABS78477	0.733333
992	17.6	1.6	24	24	ABS78478	0.733333
993	17.6	1.6	24	24	ABA98840	0.733333
994	17.6	1.6	24	24	AAS17869	0.733333
c 995	17.6	1.6	24	24	ABK15639	0.733333
c 996	17.6	1.6	24	24	ABL39405	0.733333
c 997	17.6	1.6	24	25	ACA58802	0.733333
c 998	17.6	1.6	24	25	ABZ80181	0.733333
5181	15.4	1.4	21	19	AAZ26141	0.733333
5182	15.4	1.4	21	19	AAZ26142	0.733333
c5183	15.4	1.4	21	20	AAZ21594	0.733333
c5184	15.4	1.4	21	22	AAF24290	0.733333
5185	15.4	1.4	21	24	ABK99283	0.733333
c5186	15.4	1.4	21	25	ABX79794	0.733333
26959	13.2	1.2	18	10	AAN90456	0.733333
26960	13.2	1.2	18	12	AAQ10847	0.733333
26961	13.2	1.2	18	13	AAQ29050	0.733333
26962	13.2	1.2	18	13	AAQ31225	0.733333
c26963	13.2	1.2	18	16	AAQ79940	0.733333
26964	13.2	1.2	18	17	AAT50703	0.733333
c26965	13.2	1.2	18	18	AAX75617	0.733333
c26966	13.2	1.2	18	18	AAX71707	0.733333
26967	13.2	1.2	18	18	AAT88311	0.733333
26968	13.2	1.2	18	18	AAT58613	0.733333
c26969	13.2	1.2	18	19	AAV16025	0.733333

c26970	13.2	1.2	18	19	AAT99177	0.733333
26971	13.2	1.2	18	20	AAZ40986	0.733333
c26972	13.2	1.2	18	20	AAZ41175	0.733333
26973	13.2	1.2	18	20	AAZ41210	0.733333
26974	13.2	1.2	18	20	AAZ22226	0.733333
c26975	13.2	1.2	18	20	AAZ19546	0.733333
c26976	13.2	1.2	18	20	AAX87332	0.733333
26977	13.2	1.2	18	20	AAX84480	0.733333
c26978	13.2	1.2	18	21	AAZ70705	0.733333
26979	13.2	1.2	18	21	AAA63616	0.733333
26980	13.2	1.2	18	21	AAA63619	0.733333
26981	13.2	1.2	18	21	AAA52856	0.733333
26982	13.2	1.2	18	21	AAZ95030	0.733333
c26983	13.2	1.2	18	21	AAZ93459	0.733333
c26984	13.2	1.2	18	21	AAA10825	0.733333
c26985	13.2	1.2	18	21	AAA05269	0.733333
c26986	13.2	1.2	18	21	AAZ89730	0.733333
c26987	13.2	1.2	18	21	AAZ43284	0.733333
26988	13.2	1.2	18	22	AAF89357	0.733333
c26989	13.2	1.2	18	22	AAH55233	0.733333
26990	13.2	1.2	18	22	AAH55234	0.733333
c26991	13.2	1.2	18	22	AAS01725	0.733333
c26992	13.2	1.2	18	22	AAF61167	0.733333
26993	13.2	1.2	18	22	AAF94707	0.733333
26994	13.2	1.2	18	22	AAC99280	0.733333
c26995	13.2	1.2	18	22	AAH47615	0.733333
26996	13.2	1.2	18	24	ABX96552	0.733333
26997	13.2	1.2	18	24	ABT06253	0.733333
26998	13.2	1.2	18	24	ABT04732	0.733333
26999	13.2	1.2	18	24	ABN99785	0.733333
27000	13.2	1.2	18	24	ABK72477	0.733333
27001	13.2	1.2	18	24	ABL59674	0.733333
c27002	13.2	1.2	18	24	ABL58280	0.733333
27003	13.2	1.2	18	24	ABL95898	0.733333
27004	13.2	1.2	18	24	ABL54939	0.733333
27005	13.2	1.2	18	24	ABL45137	0.733333
27006	13.2	1.2	18	25	AAL55132	0.733333
c27007	13.2	1.2	18	25	ABZ21485	0.733333
c2780	16.8	1.5	23	21	AAA64547	0.730435
55372	12.4	1.1	17	13	AAQ26112	0.729412
c55373	12.4	1.1	17	13	AAQ26233	0.729412
c55374	12.4	1.1	17	13	AAQ26331	0.729412
c55375	12.4	1.1	17	14	AAQ47606	0.729412
c55376	12.4	1.1	17	18	AAX71613	0.729412
c55377	12.4	1.1	17	18	AAV14179	0.729412
c55378	12.4	1.1	17	19	AAV97635	0.729412
55379	12.4	1.1	17	19	AAV95304	0.729412
55380	12.4	1.1	17	19	AAV95305	0.729412
55381	12.4	1.1	17	19	AAV96425	0.729412
55382	12.4	1.1	17	19	AAV48869	0.729412
c55383	12.4	1.1	17	20	AAA20388	0.729412
55384	12.4	1.1	17	20	AAV91019	0.729412
55385	12.4	1.1	17	20	AAV91020	0.729412
55386	12.4	1.1	17	20	AAV91021	0.729412
c55387	12.4	1.1	17	21	AAC66363	0.729412
55388	12.4	1.1	17	21	AAF02281	0.729412
55389	12.4	1.1	17	21	AAF02453	0.729412
55390	12.4	1.1	17	21	AAF02454	0.729412
55391	12.4	1.1	17	21	AAF02692	0.729412
c55392	12.4	1.1	17	21	AAF03223	0.729412

c55393	12.4	1.1	17	21	AAF06312	0.729412
c55394	12.4	1.1	17	21	AAF06313	0.729412
55395	12.4	1.1	17	21	AAA46231	0.729412
55396	12.4	1.1	17	21	AAA36001	0.729412
c55397	12.4	1.1	17	21	AAZ24112	0.729412
55398	12.4	1.1	17	22	ABA79372	0.729412
c55399	12.4	1.1	17	22	ABA79373	0.729412
55400	12.4	1.1	17	22	AAH95047	0.729412
55401	12.4	1.1	17	22	AAH95048	0.729412
55402	12.4	1.1	17	22	AAH80144	0.729412
c55403	12.4	1.1	17	23	ABK00420	0.729412
55404	12.4	1.1	17	23	ABK02482	0.729412
c55405	12.4	1.1	17	24	ABV85120	0.729412
c55406	12.4	1.1	17	24	ABV85121	0.729412
c55407	12.4	1.1	17	24	ABV85122	0.729412
c55408	12.4	1.1	17	24	ABV85123	0.729412
c55409	12.4	1.1	17	24	ABQ99687	0.729412
55410	12.4	1.1	17	24	ABK55724	0.729412
55411	12.4	1.1	17	24	ABK55725	0.729412
55412	12.4	1.1	17	24	ABK56266	0.729412
55413	12.4	1.1	17	24	ABK57081	0.729412
55414	12.4	1.1	17	24	ABN07675	0.729412
55415	12.4	1.1	17	24	ABN07679	0.729412
c55416	12.4	1.1	17	24	ABN07800	0.729412
c55417	12.4	1.1	17	24	ABN07801	0.729412
c55418	12.4	1.1	17	24	ABN07802	0.729412
c55419	12.4	1.1	17	24	ABN07803	0.729412
c55420	12.4	1.1	17	24	ABN08111	0.729412
c55421	12.4	1.1	17	24	ABN08112	0.729412
c55422	12.4	1.1	17	24	ABN08113	0.729412
c55423	12.4	1.1	17	24	ABN08114	0.729412
c55424	12.4	1.1	17	24	ABN08393	0.729412
c55425	12.4	1.1	17	24	ABN08394	0.729412
c55426	12.4	1.1	17	24	ABN08659	0.729412
c55427	12.4	1.1	17	24	ABA93692	0.729412
55428	12.4	1.1	17	24	ABK17554	0.729412
c55429	12.4	1.1	17	24	ABK17718	0.729412
c55430	12.4	1.1	17	24	ABK17723	0.729412
c55431	12.4	1.1	17	24	ABK17724	0.729412
c55432	12.4	1.1	17	24	ABK18431	0.729412
55433	12.4	1.1	17	24	ABK18608	0.729412
c55434	12.4	1.1	17	24	ABK19084	0.729412
55435	12.4	1.1	17	24	ABK19427	0.729412
55436	12.4	1.1	17	24	ABK26199	0.729412
c55437	12.4	1.1	17	24	ABK26200	0.729412
55438	12.4	1.1	17	25	ABT34415	0.729412
c55439	12.4	1.1	17	25	ABT35404	0.729412
c55440	12.4	1.1	17	25	ABT35974	0.729412
c55441	12.4	1.1	17	25	ABT36096	0.729412
c55442	12.4	1.1	17	25	ABT36562	0.729412
c55443	12.4	1.1	17	25	ABT37233	0.729412
55444	12.4	1.1	17	25	ABT37801	0.729412
c55445	12.4	1.1	17	25	ABT39985	0.729412
c55446	12.4	1.1	17	25	ACA06427	0.729412
c55447	12.4	1.1	17	25	ABZ60277	0.729412
55448	12.4	1.1	17	25	ABZ60283	0.729412
c55449	12.4	1.1	17	25	ABZ61269	0.729412
55450	12.4	1.1	17	25	ABZ61967	0.729412
c55451	12.4	1.1	17	25	ABZ64762	0.729412
c55452	12.4	1.1	17	25	ABZ64765	0.729412

c55453	12.4	1.1	17	25	ABZ64766	0.729412
55454	12.4	1.1	17	25	ABZ64806	0.729412
c55455	12.4	1.1	17	25	ABZ64876	0.729412
c55456	12.4	1.1	17	25	ABZ64877	0.729412
c55457	12.4	1.1	17	25	ABZ64901	0.729412
c55458	12.4	1.1	17	25	ABZ64966	0.729412
c55459	12.4	1.1	17	25	ABZ65371	0.729412
c 656	18.2	1.7	25	21	AAC96060	0.728
c 657	18.2	1.7	25	21	AAC96085	0.728
3795	16	1.5	22	24	AAD33501	0.727273
c16403	13.8	1.3	19	13	AAQ20028	0.726316
c16404	13.8	1.3	19	13	AAQ20029	0.726316
c16405	13.8	1.3	19	13	AAQ30374	0.726316
c16406	13.8	1.3	19	13	AAQ30375	0.726316
c16407	13.8	1.3	19	18	AAT65904	0.726316
16408	13.8	1.3	19	21	AAZ72847	0.726316
16409	13.8	1.3	19	21	AAZ76004	0.726316
c16410	13.8	1.3	19	21	AAA95378	0.726316
c16411	13.8	1.3	19	21	AAA84710	0.726316
c16412	13.8	1.3	19	21	AAZ94157	0.726316
16413	13.8	1.3	19	22	AAH45473	0.726316
c16414	13.8	1.3	19	22	AAH59872	0.726316
16415	13.8	1.3	19	22	AAF76084	0.726316
16416	13.8	1.3	19	22	AAF76471	0.726316
c16417	13.8	1.3	19	24	ABN88132	0.726316
c 196	19.6	1.8	27	20	AAV71936	0.725926
c 197	19.6	1.8	27	24	ABK52620	0.725926
c1175	17.4	1.6	24	22	AAI64873	0.725
1176	17.4	1.6	24	25	ABZ23536	0.725
5888	15.2	1.4	21	19	AAZ26499	0.72381
c5889	15.2	1.4	21	22	AAF79922	0.72381
c5890	15.2	1.4	21	22	AAC91374	0.72381
c5891	15.2	1.4	21	24	ABK15655	0.72381
c32350	13	1.2	18	13	AAQ23988	0.722222
32351	13	1.2	18	16	AAQ90149	0.722222
32352	13	1.2	18	19	AAV45778	0.722222
32353	13	1.2	18	22	AAF26667	0.722222
c32354	13	1.2	18	24	ABS52682	0.722222
c 774	18	1.6	25	19	AAV42215	0.72
c 775	18	1.6	25	20	AAX84259	0.72
c10169	14.4	1.3	20	19	AAV22586	0.72
c10170	14.4	1.3	20	21	AAC73668	0.72
c10171	14.4	1.3	20	21	AAA90815	0.72
c10172	14.4	1.3	20	22	AAC82924	0.72
c10173	14.4	1.3	20	23	ABZ72209	0.72
c10174	14.4	1.3	20	24	ABT13907	0.72
10175	14.4	1.3	20	24	AAD39496	0.72
c10176	14.4	1.3	20	24	ABI94957	0.72
c10177	14.4	1.3	20	25	ABZ80021	0.72
c10178	14.4	1.3	20	25	ABX75062	0.72
c10179	14.4	1.3	20	25	ABX15031	0.72
c10180	14.4	1.3	20	25	ABX04322	0.72
c4167	15.8	1.4	22	20	AAZ27844	0.718182
4168	15.8	1.4	22	22	AAS63416	0.718182
4169	15.8	1.4	22	22	AAS63419	0.718182
4170	15.8	1.4	22	22	AAS10359	0.718182
4171	15.8	1.4	22	22	AAS10362	0.718182
4172	15.8	1.4	22	22	AAF28471	0.718182
4173	15.8	1.4	22	22	AAF28474	0.718182
4174	15.8	1.4	22	24	ABS54436	0.718182

4175	15.8	1.4	22	24	ABS64661	0.718182
4176	15.8	1.4	22	24	ABS64664	0.718182
4177	15.8	1.4	22	24	ABS64691	0.718182
4178	15.8	1.4	22	24	ABK65023	0.718182
4179	15.8	1.4	22	24	ABK65026	0.718182
4180	15.8	1.4	22	24	ABK65053	0.718182
4181	15.8	1.4	22	25	ABX92165	0.718182
4182	15.8	1.4	22	25	ABX92168	0.718182
4183	15.8	1.4	22	25	ABX98146	0.718182
4184	15.8	1.4	22	25	ABX98149	0.718182
4185	15.8	1.4	22	25	ABX79169	0.718182
4186	15.8	1.4	22	25	ABX79172	0.718182
c4187	15.8	1.4	22	25	ABV74140	0.718182
1323	17.2	1.6	24	24	ABS55943	0.716667
c1324	17.2	1.6	24	24	ABK91269	0.716667
c1325	17.2	1.6	24	24	ABQ76045	0.716667
c1326	17.2	1.6	24	24	ABK48140	0.716667
c1327	17.2	1.6	24	24	ABA04737	0.716667
c 473	18.6	1.7	26	20	AAX78723	0.715385
c 474	18.6	1.7	26	20	AAX07466	0.715385
6755	15	1.4	21	22	AAF96192	0.714286
6756	15	1.4	21	24	ABS97669	0.714286
6757	15	1.4	21	24	ABS97681	0.714286
6758	15	1.4	21	24	ABL57071	0.714286
c3156	16.4	1.5	23	20	AAX23577	0.713043
c3157	16.4	1.5	23	21	AAA29753	0.713043
c3158	16.4	1.5	23	22	AAH30031	0.713043
c3159	16.4	1.5	23	22	AAH30035	0.713043
c 893	17.8	1.6	25	21	AAC96082	0.712
c 319	19.2	1.7	27	25	ABX79828	0.711111
c38725	12.8	1.2	18	13	AAQ20007	0.711111
38726	12.8	1.2	18	13	AAQ26202	0.711111
38727	12.8	1.2	18	14	AAQ41404	0.711111
c38728	12.8	1.2	18	17	AAX67186	0.711111
c38729	12.8	1.2	18	17	AAX15196	0.711111
c38730	12.8	1.2	18	17	AAX15198	0.711111
38731	12.8	1.2	18	17	AAT32141	0.711111
c38732	12.8	1.2	18	17	AAT16419	0.711111
38733	12.8	1.2	18	17	AAT18697	0.711111
c38734	12.8	1.2	18	18	AAX71751	0.711111
c38735	12.8	1.2	18	18	AAV13327	0.711111
38736	12.8	1.2	18	19	AAV40031	0.711111
c38737	12.8	1.2	18	19	AAV15663	0.711111
38738	12.8	1.2	18	20	AAZ41189	0.711111
38739	12.8	1.2	18	20	AAZ22205	0.711111
38740	12.8	1.2	18	20	AAZ10941	0.711111
38741	12.8	1.2	18	20	AAZ18138	0.711111
38742	12.8	1.2	18	20	AAZ18140	0.711111
38743	12.8	1.2	18	20	AAZ18142	0.711111
38744	12.8	1.2	18	20	AAZ18144	0.711111
38745	12.8	1.2	18	20	AAZ18146	0.711111
38746	12.8	1.2	18	20	AAZ18148	0.711111
38747	12.8	1.2	18	20	AAZ18150	0.711111
c38748	12.8	1.2	18	20	AAX01403	0.711111
38749	12.8	1.2	18	21	AAZ70230	0.711111
38750	12.8	1.2	18	21	AAZ72978	0.711111
c38751	12.8	1.2	18	21	AAZ74871	0.711111
38752	12.8	1.2	18	21	AAZ76819	0.711111
c38753	12.8	1.2	18	21	AAC62614	0.711111
c38754	12.8	1.2	18	21	AAC62694	0.711111

c38755	12.8	1.2	18	21	AAA09486	0.711111
c38756	12.8	1.2	18	21	AAA12336	0.711111
c38757	12.8	1.2	18	21	AAA40933	0.711111
c38758	12.8	1.2	18	21	AAA40934	0.711111
c38759	12.8	1.2	18	21	AAA40935	0.711111
38760	12.8	1.2	18	21	AAZ56420	0.711111
c38761	12.8	1.2	18	22	AAH26010	0.711111
c38762	12.8	1.2	18	22	AAH63028	0.711111
c38763	12.8	1.2	18	22	AAC85987	0.711111
c38764	12.8	1.2	18	22	AAH40933	0.711111
c38765	12.8	1.2	18	22	AAS01839	0.711111
38766	12.8	1.2	18	22	AAS01840	0.711111
38767	12.8	1.2	18	22	AAF77404	0.711111
c38768	12.8	1.2	18	24	ABX89568	0.711111
c38769	12.8	1.2	18	24	ABL61442	0.711111
c38770	12.8	1.2	18	24	ABK98126	0.711111
c38771	12.8	1.2	18	24	ABL59012	0.711111
c38772	12.8	1.2	18	24	ABK30214	0.711111
c38773	12.8	1.2	18	24	ABL43118	0.711111
38774	12.8	1.2	18	24	ABL44184	0.711111
c38775	12.8	1.2	18	25	ABX96428	0.711111
c38776	12.8	1.2	18	25	ABX10913	0.711111
c38777	12.8	1.2	18	25	ABX15434	0.711111
c38778	12.8	1.2	18	25	AAL54275	0.711111
c11784	14.2	1.3	20	13	AAQ20027	0.71
c11785	14.2	1.3	20	13	AAQ30371	0.71
c11786	14.2	1.3	20	13	AAQ30372	0.71
11787	14.2	1.3	20	14	AAQ53128	0.71
c11788	14.2	1.3	20	15	AAQ58461	0.71
11789	14.2	1.3	20	16	AAQ98660	0.71
c11790	14.2	1.3	20	16	AAT01233	0.71
11791	14.2	1.3	20	17	AAT44752	0.71
c11792	14.2	1.3	20	18	AAV01932	0.71
c11793	14.2	1.3	20	18	AAV01248	0.71
c11794	14.2	1.3	20	18	AAT48684	0.71
11795	14.2	1.3	20	18	AAT77876	0.71
11796	14.2	1.3	20	18	AAT47349	0.71
c11797	14.2	1.3	20	19	AAV20056	0.71
11798	14.2	1.3	20	19	AAV17423	0.71
c11799	14.2	1.3	20	20	AAZ37482	0.71
11800	14.2	1.3	20	20	AAZ37720	0.71
c11801	14.2	1.3	20	20	AAZ06049	0.71
11802	14.2	1.3	20	20	AAZ05954	0.71
c11803	14.2	1.3	20	20	AAZ04675	0.71
11804	14.2	1.3	20	20	AAZ01622	0.71
11805	14.2	1.3	20	20	AAX94936	0.71
c11806	14.2	1.3	20	20	AAX94007	0.71
c11807	14.2	1.3	20	20	AAX91991	0.71
11808	14.2	1.3	20	20	AAX29926	0.71
11809	14.2	1.3	20	20	AAV73038	0.71
c11810	14.2	1.3	20	20	AAV73141	0.71
11811	14.2	1.3	20	21	AAC93175	0.71
11812	14.2	1.3	20	21	AAA78302	0.71
11813	14.2	1.3	20	21	AAA41064	0.71
11814	14.2	1.3	20	21	AAZ49574	0.71
11815	14.2	1.3	20	21	AAZ56049	0.71
c11816	14.2	1.3	20	22	AAS29251	0.71
11817	14.2	1.3	20	22	AAS29489	0.71
11818	14.2	1.3	20	22	AAD14791	0.71
c11819	14.2	1.3	20	22	AAD09232	0.71

c11820	14.2	1.3	20	22	AAH42050	0.71
11821	14.2	1.3	20	22	AAH45766	0.71
c11822	14.2	1.3	20	22	AAD07541	0.71
c11823	14.2	1.3	20	22	AAF80636	0.71
11824	14.2	1.3	20	22	AAF80874	0.71
c11825	14.2	1.3	20	24	AAL41518	0.71
11826	14.2	1.3	20	24	AAD42961	0.71
11827	14.2	1.3	20	24	AAD41747	0.71
11828	14.2	1.3	20	24	ABK99746	0.71
c11829	14.2	1.3	20	24	ABQ62490	0.71
c11830	14.2	1.3	20	24	AAD36641	0.71
11831	14.2	1.3	20	24	AAD35073	0.71
11832	14.2	1.3	20	24	AAD34671	0.71
11833	14.2	1.3	20	24	AAS97928	0.71
11834	14.2	1.3	20	24	AAS15230	0.71
11835	14.2	1.3	20	24	AAS96792	0.71
11836	14.2	1.3	20	24	ABL44478	0.71
11837	14.2	1.3	20	25	ABV77208	0.71
c4613	15.6	1.4	22	16	AAQ82104	0.709091
4614	15.6	1.4	22	21	AAC69375	0.709091
c4615	15.6	1.4	22	21	AAA57767	0.709091
c4616	15.6	1.4	22	24	ABQ93623	0.709091
4617	15.6	1.4	22	24	AAD31453	0.709091
4618	15.6	1.4	22	24	AAD31457	0.709091
c1891	17	1.5	24	18	AAT68615	0.708333
c1892	17	1.5	24	22	AAH43079	0.708333
c1893	17	1.5	24	22	AAH24266	0.708333
c1894	17	1.5	24	24	ABQ79878	0.708333
c1895	17	1.5	24	24	ABK86172	0.708333
c1896	17	1.5	24	24	ABN85073	0.708333
1897	17	1.5	24	24	AAD33505	0.708333
c1898	17	1.5	24	24	ABL55130	0.708333
c1899	17	1.5	24	25	ABX79809	0.708333
c22908	13.4	1.2	19	18	AAT51286	0.705263
22909	13.4	1.2	19	19	AAV29497	0.705263
c7822	14.8	1.3	21	13	AAQ24704	0.704762
7823	14.8	1.3	21	19	AAZ26619	0.704762
7824	14.8	1.3	21	19	AAZ26714	0.704762
7825	14.8	1.3	21	20	AAX60141	0.704762
c7826	14.8	1.3	21	24	ABS97869	0.704762
c7827	14.8	1.3	21	24	ABK51692	0.704762
c 999	17.6	1.6	25	16	AAQ95960	0.704
c1000	17.6	1.6	25	20	AAX84260	0.704
c1001	17.6	1.6	25	21	AAC96201	0.704
c1002	17.6	1.6	25	21	AAC96858	0.704
c1003	17.6	1.6	25	21	AAA39306	0.704
c1004	17.6	1.6	25	21	AAZ30267	0.704
c1005	17.6	1.6	25	23	ABK49986	0.704
c 406	19	1.7	27	20	AAV71935	0.703704
c 407	19	1.7	27	24	ABK65992	0.703704
c2781	16.8	1.5	24	18	AAV06320	0.7
c2782	16.8	1.5	24	24	ABN85224	0.7
c 60	21	1.9	30	21	AAA71444	0.7
13892	14	1.3	20	16	AAQ75194	0.7
13893	14	1.3	20	17	AAT48516	0.7
c13894	14	1.3	20	18	AAT73291	0.7
c13895	14	1.3	20	18	AAT73292	0.7
c13896	14	1.3	20	18	AAT45308	0.7
13897	14	1.3	20	20	AAX96705	0.7
13898	14	1.3	20	21	AAA09108	0.7

c13899	14	1.3	20	22	AAD11996	0.7
c13900	14	1.3	20	22	AAF99302	0.7
c13901	14	1.3	20	24	ABS77947	0.7
c13902	14	1.3	20	24	ABK85071	0.7
c13903	14	1.3	20	24	ABK37240	0.7
13904	14	1.3	20	24	ABI94254	0.7
c13905	14	1.3	20	24	ABL39308	0.7